

Amendments to the specification

Please replace paragraph [0023] with the following rewritten paragraph:

-- [0023] FIG. 6A-C (extending across three pages) is a flow chart showing a process suitable for measurement in three planes, with each plane having four cube corner pairs that are 90° 90° apart. --

Please replace paragraph [0028] with the following rewritten paragraph:

-- [0028] The rotational measurement system 10 includes a rotary assembly 12 that consists of twelve pairs of cube corners 14, arranged as opposed units that are mounted at respective ends of mechanical arms 16, as shown. These mechanical arms 16 extend so that the pairs of cube corners 14 are 30° 30° apart, and thus so that the twelve pairs cover the complete 360° 360° range of a full circle. --

Please replace paragraph [0030] with the following rewritten paragraph:

-- [0030] Since the maximum angle at which a laser interferometer can typically be used to measure is approximately 35° 35° , the arrangement of the rotary assembly 12 is made such that there will always be one cube corner 14 available for measurement wherever the rotary assembly 12 is located. In the rotary assembly 12 here an extra 5° 5° of angular range is provided that allows the next pair of cube corners 14 to take over measurement when the rotary assembly 12 rotates by 30° 30° , i.e., as the previous pair is reaching its 30° 30° range limitation. This ensures that there is no interruption when measurement is greater than 30° 30° or even through a full circle. --

Please replace paragraph [0032] with the following rewritten paragraph:

-- [0032] Depending on the size of the cube corners 14 and the length of the mechanical arms 16 that one chooses, the physical dimension of the cube corner 14 in the previous pair might block the path of the laser beam 20 to the next cube corner 14. Therefore, the number of the pairs of cube corners 14 can be six pairs that are respectively mounted 60° 60° apart in the two measurement planes, to receive beam components from the two laser beams 20 as shown in FIG. 3. --

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Please replace paragraph [0033] with the following rewritten paragraph:

-- [0033] **FIG. 4** is a perspective views showing a rotary assembly **40** based on an extension of the concept just described for **FIG. 3**. The rotary assembly **40** here has three measurement planes **42a-c** each including four pairs of cube corners **14** mounted on two mechanical arms **16** such that the pairs in a respective plane are $90\text{--}90^\circ$ apart, and such that the cube corners **14** in adjacent planes are $30\text{--}30^\circ$ apart. This rotary assembly **40** can be used with three laser beams (not shown here), and is used in the example embodiment of the invention depicted in **FIG. 7** (discussed presently). --

Please replace paragraph [0049] with the following rewritten paragraph:

-- [0049] **FIG. 6A-C** (extending across three pages) is a flow chart showing a process **100** suitable for measurement in three planes, with each plane having four cube corner pairs that are $90\text{--}90^\circ$ apart (e.g., as in the apparatus of **FIG. 4** or **FIG. 7** (discussed presently)). An algorithm for a configuration consisting of two measurement planes, with each plane having six cube corner pairs (i.e. $60\text{--}60^\circ$ apart), is conceptually similar. --

Please replace paragraph [0051] with the following rewritten paragraph:

-- [0051] During initial alignment, any one of the planes **168a-c** can be used as the primary plane for measurement. Thus, one of the laser beam components **156a-c** is aligned to the optimum angular position of a paired set of cube corners **14** in a measurement plane so that measurement can be initiated. Since the angular configuration between any of the measurement planes is $30\text{--}30^\circ$ apart, the rotated angle can always fall into the measurement range of one of the twelve pairs of cube corners **14**. --